

CLAIMS

1. A jaw crusher having two jaws (11, 12) which define an upwardly open crushing chamber (13) for receiving crushable material and a discharge opening (14) between the lower ends (15, 16) of the jaws (11, 12) for discharging crushed material, the jaws (11, 12) being relatively movable so as to vary the size of the receiving chamber (13) and thereby exert working and relieving actions on the crushable material and so that crushed material can be discharged via the discharge opening (14), and in which:

a rotatable elongate member (22) extends throughout at least a major part of the length L of the jaws (11, 12), and is located at or near to the discharge opening (14) so as to assist the gravity discharge of crushed material through the discharge opening (14), and / or to exert an impact / crushing action in conjunction with the working actions of the jaws.

2. A jaw crusher according to claim 1, in which the elongate member (22) extends substantially throughout the length L of the jaws (11, 12).

3. A jaw crusher according to claim 1 or 2, in which the elongate member (22) is rotatably mounted on one of the jaws (11, 12).

4. A jaw crusher according to claim 3, in which the elongate member is rotatably mounted on one of the jaws (11, 12), at or near to the lower end thereof.

5. A jaw crusher according to any one of claims 1 to 4, in which one of the jaws (11) is a fixed jaw, and the other jaw (12) is mounted to be movable towards and away from the fixed jaw (11).

6. A jaw crusher according to claim 5, in which the movable jaw (12) is coupled with an eccentric drive mechanism (20) which operates the movable jaw (12) in a cycle comprising a working stroke approaching the fixed jaw (11) and a relieving stroke moving away from the fixed jaw (11).

7. A jaw crusher according to any one of claims 1 to 6, in which the elongate member (22) has a circular cross section, and comprises a roller.

8. A jaw crusher according to any one of claims 1 to 7, in which the elongate member (22) is freely rotatable, and arranged to be driven by the downward movement of the crushed material.

9. A jaw crusher according to any one of claim 1 to 7, in which the elongate

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member (22) is arranged to be driven to rotate, to further assist the downward gravity-derived movement of the material.

10. A jaw crusher according to any one of the preceding claims, having more than one elongate member (22) arranged at or near to the discharge opening (14), so as to assist
5 the gravity discharge of crushed material through the discharge opening (14).

11. A jaw crusher according to any one of the preceding claims, in which a toggle or other mechanism (21) is coupled with one of the jaws and is operative to apply to and fro movement to the lower end of the jaw, which cooperates with said elongate member (22) to exert additional crushing action on the material.